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## Minutes of the Annual Meeting held at the old Board of Trade Rooms, Columbus, January 23, 24 and 25, 1890.

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The meeting was called to order by W. J. Hester at 7:30 p. m. The Hon. Thos. B. Bancroft being absent, the Hon. R. M. Haseltine was elected to act as Secretary and Treasurer pro tem. On the call for the reading of the minutes of the Summer Meeting it was found that they had not been prepared, whereupon President Hester was asked to deliver an oral account of the Summer Meeting held at Cambridge on August 7th, 8th and 9th.

The slim attendance and want of papers on that occasion had discouraged the President so much that his annual address was of anything but a satisfactory character. His dramatic remarks on the death of the Institute and the suggestion of abandoning further meetings brought forth the most spirited reply from the Hon. Andrew Roy, whose remarks were received in the most enthusiastic manner. Prof. F. W. Sperr also resented the suggestion and gave the Institute new energy. Prof. N. W. Lord also spoke encouragingly of the future of the Institute and the want of interest at the Cambridge meeting to a lack of preparation and energy on the part of the officials. Prof. Edward Orton aided with words of cheer and urged that a repetition of old timed energy by all would result in increased interest in future meetings. Capt. J. L. Morris lent cheer to the occasion with one of his characteristic speeches.

To get back to the usual dignity of the Institute on motion of Mr. Roy, Prof. Edward Orton was requested to address the Institute in a short talk on the subject of natural gas and its relative pressure in different fields, also as to the origin of the pressure and the origin of the floor which forms the bottom of the field from which Columbus receives its supply. The learned Professor soon restored the Institute to its time-honored dignity and delivered one of the most interesting and instructive dis-

courses it has been the good fortune of the members to enjoy. The hour growing late the Institute adjourned, to meet at 9 A. M. the following day.

MORNING MEETING, January 24, 1890.

The meeting was called to order by the President when the Hon. Andrew Roy presented the following resolution which was adopted :

COLUMBUS, OHIO, January 24, 1890.

*To his Excellency, James E. Campbell, Governor of Ohio :*

DEAR SIR :—At a meeting of the Ohio Institute of Mining Engineers held in this city to-day the following preamble and resolutions were unanimously adopted :

WHEREAS, the mining industry of the State is second only to the agricultural interests, and

WHEREAS, Provision is made by the law for a School of Mines in the State University, wherefore be it

*Resolved,* That in the sense of this Institute the mining industry should be represented on the Board of Trustees of State University.

*Resolved,* That the above preamble and resolution be transmitted to the Governor for his earnest consideration.

Adopted.

WM. J. HESTER, *President.*

R. M. HASELTINE, *Secretary Pro tem.*

The Secretary then read a very interesting and instructive paper on Gases, Ventilation and Explosive, by Mr. T. F. Smith, of Mineral Point. The paper was well received and was ably discussed by Prof. N. W. Lord and others. A vote of thanks was tendered to Mr. Smith for his able paper.

Hon. R. M. Haseltine, Chairman of the Committee on Miners' Hospitals, then read the report of that committee, which was appointed at the January meeting. A long discussion followed in which Hazeltine, Roy, Bell, Haughee, Love and Harry engaged. On the conclusion of the discussion, Capt. Morris moved that the committee be continued one year with the request that they make further investigation looking to the establishment of hospitals for the care of injured miners. This motion was unanimously carried.

Prof. Lord then gave the Institute a talk on impure water and its effects on boilers when used in them. A vote of thanks was tendered the Professor for his able lecture. The Institute then adjourned to meet in the afternoon.

#### AFTERNOON SESSION.

On the convening of the Institute after dinner, the names of Robert Bell, of Massillon; Wm. M. Schlesinger, of Columbus; A. J. Baggs, of Bridgeport; Thos. H. Love, of Leesville and W. R. Kimball, of Columbus were presented for membership. On motion of E. D. Haseltine the Secretary was directed to cast the vote of the Institute which resulted in their election.

It was moved that a committee composed of Prof. Lord, T. E. Watkins and H. B. Van Atta be appointed to nominate officers to serve the Institute for the ensuing year. Pending their report, Mr. J. W. Haughee, District Mine Inspector, introduced a resolution requesting the Institute to take some action with a view of determining the ingredients of the oil now in general use in the mines of the State. The resolution was discussed by D. J. Harry and Profs. Lord and Sperr. Prof. Lord moved that the chair appoint a committee of three to secure such legislation as will prevent the use in mines of oils injurious to the health of the employed therein. This motion prevailed. The President deferring the appointment of the committee. The Committee on the Nomination of Officers for the ensuing year reported, recommending for President, Hon. Anthony Howells, of Massillon; Vice President, Wm. B. Hanlon, of New Philadelphia; Secretary and Treasurer, Hon. R. M. Haseltine, of Columbus; for Executive Committee, Prof. N. W. Lord, Hon. Andrew Roy and Prof. F. W. Sperr. They further named Capt. J. L. Morris as Registry Clerk. On motion the rules were suspended, the report of the Committee was adopted and the persons named were elected. A request was made by a gentlemen present that Prof. Lord be invited to address the Institute with an impromptu talk on the manufacture of fuel gas which the Professor did in his usual happy way. On his conclusion Prof. F. W. Sperr delivered an address on mine ventilation and the subject of equivalent orifice and the mode of instruction at the School of Mines. The Professor handled the

subject in an able manner and was listened to with marked attention. Mr. T. L. Watkins moved that Hon. R. M. Haseltine, Hon. Andrew Roy and W. H. Jennings be appointed a committee to investigate as to the necessities of the School of Mines known as the Short Mining Course and secure such an appropriation at the hands of the Legislature as will meet their necessities. After extending a vote of thanks to the Columbus Board of Trade for the use of their rooms during the session, the Institute took a recess until 7:30 P. M., when an exhibition of the Shaw system of detecting, measuring and removing dangerous and poisonous gases in mines was to be given by the inventor, Mr. Thomas Shaw, of Philadelphia, Pa., at the City Hall. During the recess in response to an invitation the members visited the works of the Jeffrey Manufacturing Co. They were taken in charge by the superintendent, who very kindly showed them through their extensive works which are devoted exclusively to the manufacture of mining machinery. The members were very much interested in witnessing the operation of the electric coal cutting machines which were being tested preparatory to their shipment to the mines. A number of the compressed air machines were also set in operation and the members engaged in quite a discussion as to their relative merits. The exhibition of the compressed air drill in motion was new to many and attracted fully as much attention as any of the labor saving machines exhibited. After examining a number of machines in the course of erection and noting the care which was taken in putting them together, they were shown the electric plant which is used for testing the machines and lighting the works. After a visit to the model engine room and examining the magnificent engine which furnishes the power for the works, they returned feeling well repaid for their trip.

Upon the convening of the evening meeting, the City Hall was well filled with members of the General Assembly, Professors from the Ohio State University, delegates to the annual meeting of the United Mine Workers of America, coal operators and members of the Institute. On being called to order by President W. J. Hester, who, after a few well chosen remarks as to the treat that was prepared for them in being able to witness the first invention that would subject mine gases to instru-

mental control ever exhibited in Ohio, he introduced Prof. Thomas Shaw, M. E., the inventor. During Mr. Shaw's lecture, which was illustrated by practical tests of the presence of mine gases in various percentages, the utmost interest was manifested by the audience.

There were present on the stage, Prof. Edward Orton, State Geologist; Hon. J. B. Rea, President United Mine Workers of America; Profs. N. W. Lord and F. W. Sperr of the School of Mines, Ohio State University; the Hon. N. R. Hysell, Speaker of the House of Representatives; R. M. Haseltine, Chief Inspector of Mines, and others. Mr. Shaw held his audience spell-bound for nearly three hours, when owing to the lateness of the hour, he closed so that all might have an opportunity to come forward and carefully examine the instrument. The delegates present from the order of the United Mine Workers of America were so well pleased that on the following day in convention assembled they passed the resolution below:

WHEREAS, We believe that the safety of men employed in mining is of the greatest importance, and that the most improved machinery and best appliances should always be used in the protection of life and limb, therefore be it

*Resolved*, That we endorse the appliance known as the Shaw Machine, and recommend its introduction to and use at all mines.

We certify that the above is a correct copy of the  
[SEAL.] Proceedings of the Joint Convention.

PATRICK MCBRYDE, *Secretary of Convention.*

ROBERT WATCHORN, *Assistant.*